**Index of Claims** 

| Appli | cation/ | Conf | trol | No. |
|-------|---------|------|------|-----|
|-------|---------|------|------|-----|

09/138,807

RAMANATHAN,

Applicant(s)/Patent under

**RAMANATHAN** 

Reexamination

Examiner

Jason P. Salce

2623

Art Unit

| <b>√</b> | Rejected |
|----------|----------|
| -        | Allowed  |

| _ | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| ÷ | Restricted                     |

| Z | Non-Elected  |
|---|--------------|
| _ | Interference |

| A | Appeal   |
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| Cla         | aim      | Date      |          |                 |          |           | Claim Date   |                 |                     |          |  |          |                 |          | :                 |          |          | ]        | Claim    |               |     | Date   |          |           |  |              |              |                                     |            |          |          |          |
|-------------|----------|-----------|----------|-----------------|----------|-----------|--------------|-----------------|---------------------|----------|--|----------|-----------------|----------|-------------------|----------|----------|----------|----------|---------------|-----|--|----------|-----------|--|--------------|--------------|-------------------------------------|------------|----------|----------|----------|
|             | -        | 7 106     |          |                 |          |           |              |                 |                     |          |  | JE JE    |                 |          |                   |          |          | Ī        |          |               |     |  | le le    |           |  |              |              |                                     |            |          |          |          |
| Final       | Original | -         | -        |                 |          |           |              |                 |                     | -        | Final  | Original |                 |          |                   |          |          |          |          |               | 1   | Final  | Original |           |  |              |              |                                     |            |          |          |          |
| 1           | ļ₽.      |           | 1        |                 |          |           |              |                 |                     |          | 1  | ğ        |                 |          |                   |          |          |          |          |               |     | <u>ا</u>   | ñ        |           |  |              |              |                                     |            |          |          |          |
|             | 0        |           |          |                 |          |           |              |                 |                     |          | _  | 0        |                 |          |                   |          |          |          |          |               | 1   |  | 0        |           |  |              |              |                                     |            |          |          | į        |
| $\vdash$    | 1        | Ė         | Н        | <u> </u>        |          |           | _            |                 | _                   | ヿ        | h  | 51       |                 | $\Box$   |                   |          | $\dashv$ | _        | $\dashv$ | $\neg \vdash$ | 1   | _  | 101      | $\vdash$  | Т  |              | $\vdash$     |                                     | Н          | $\neg$   | 寸        | $\neg$   |
| 1           | 2        |           | ┢        |                 |          | $\vdash$  |              | Н               | +                   | ┥.       |  | 52       | $\vdash$        |          | _                 | _        | $\dashv$ | -        | -        | -             | 1   | <b></b> -  | 102      | ┢         |  | $\vdash$     |              | $\vdash$                            | Н          | $\dashv$ | $\dashv$ | ᅥ        |
|             | 3        | $\vdash$  | $\vdash$ | -               | Н        | -         |              | -               | -                   | ┥        |  | 53       | H               | -        | _                 | _        |          | ┰        | $\dashv$ | -             | ┨   |  | 103      | -         | H  |              | -            | ┢                                   | H          | $\dashv$ | $\dashv$ | -        |
|             | 4        | $\vdash$  | ╁        | -               | -        | $\vdash$  | -            | Н               | +                   | $\dashv$ |  | 54       |                 | $\dashv$ | _                 | _        | $\dashv$ | $\dashv$ | $\dashv$ |               | ┨   |  | 103      | -         | H  | $\vdash$     | $\vdash$     | -                                   | Н          | +        | $\dashv$ | _        |
|             | 5        |           | ╁        | Н               |          | $\vdash$  | H            | Н               | $\dashv$            | $\dashv$ | -  | 55       | -               | $\dashv$ |                   |          | $\dashv$ | $\dashv$ | $\dashv$ | +             | ┨   | <del>                                     </del> | 105      | -         | -  | -            | -            | -                                   | Н          | -        | -+       |          |
|             | 6        | -         | ╁─       | Н               | -        | $\vdash$  | $\vdash$     | Н               | $\dashv$            | $\dashv$ |  | 56       | -               | $\vdash$ | $\dashv$          |          | $\dashv$ | -+       | $\dashv$ | -             | ┨   |  | 106      | _         | -  | H            | <u> </u>     | -                                   | H          | $\dashv$ | -+       | -        |
|             | 7        | ┢         | ┢        | -               | $\vdash$ | Н         | $\vdash$     | Н               | $\dashv$            | $\dashv$ | <b>—</b>   | 57       | -               | $\vdash$ | -                 | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | +             | ┨   | <u> </u>   | 107      | _         | -  | <u> </u>     | ⊢            | -                                   | Н          | $\dashv$ | -        |          |
|             | 8        |           |          | -               |          | $\vdash$  |              | Н               | $\dashv$            | -        | <b> </b>   | 58       | -               | $\vdash$ | -                 |          | $\dashv$ | $\dashv$ | $\dashv$ | +             | 4   | <del> </del>                                     | 108      |           | ┢  |              | ⊢            | ⊢                                   | $\vdash$   | -        | -+       |          |
| ⊢           |          | $\vdash$  | ⊢        | Н               | $\vdash$ |           | -            | Н               | -                   | $\dashv$ | <del> </del>                                     |          | H               | $\dashv$ |                   | _        |          | $\dashv$ | -        |               | ┥   |  | 100      |           | -  |              |              | -                                   | Н          |          | -        |          |
|             | 9        | _         | ⊢        | Н               | -        | $\dashv$  | $\vdash$     | Н               | $\vdash$            |          |  | 59       | $\vdash$        | Н        |                   | _        | $\dashv$ |          |          |               | 4   |  | 109      | -         | <u> </u>   | <u> </u>     | <u> </u>     | <u> </u>                            | -          |          | $\dashv$ | _        |
|             | 10       | ├         | ┝        | $\vdash$        |          |           | _            | Н               | -                   |          | <u> </u>   | 60       | $\vdash$        |          |                   |          | $\dashv$ | $\dashv$ | $\dashv$ |               | 4   |  | 110      |           |  | _            | ⊢            | _                                   | Н          | -        |          |          |
| <u> </u>    | 11       | <b>L</b>  | ⊢        | Н               | $\sqcup$ | Н         | <b> </b>     | Ы               | $\vdash$            | 4        | <u> </u>   | 61       | <u> </u>        | $\sqcup$ |                   | -        | _        | -        | _        | $\dashv$      | 4   | <u> </u>   | 111      | <u> </u>  | $\vdash$   | $\vdash$     | <u> </u>     | <u> </u>                            | $\vdash$   | _        | _        |          |
|             | 12       | ✓         | ┞        | $\square$       | Щ        | Щ         | $\vdash$     | Щ               | $\vdash \downarrow$ | 4        | <u></u>  | 62       | Щ               | Щ        | Ш                 | _        | _        | _        |          |               | 4   | <u> </u>   | 112      | <u> </u>  | <u> </u>   | $oxed{oxed}$ | <u> </u>     | <u> </u>                            | Щ          | _        | _ļ       |          |
| <u> </u>    | 13       | 1         | $\vdash$ | Щ               |          |           | <u> </u>     | Ц               | $\vdash$            | 4        |  | 63       | Щ               |          |                   |          | _        | _        | _        | $\perp$       | 4   | <u> </u>   | 113      | <u> </u>  |  | $oxed{oxed}$ |              | <u> </u>                            | Ш          | _        | _        |          |
| <u></u>     | 14       | Ш         | _        | Щ               | Щ        | $\square$ | $\vdash$     | Щ               | $\sqcup$            | _        |  | 64       | igspace         |          |                   |          |          |          |          | _             | 1   | <u> </u>   | 114      | _         | Ш  |              | L            | L                                   | Ш          | _        | _        |          |
|             | 15       | $\mu$     | <u> </u> | Щ               |          |           | <u> </u>     | Ш               | oxdot               | _        |  | 65       | <u> </u>        |          | Ш                 |          | $\Box$   |          | $\dashv$ | $\perp$       | 1   | <u> </u>   | 115      | L         |  | L.           | <u> </u>     | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | Ш          | ļ        |          |          |
|             | 16       | $\coprod$ | $\vdash$ | Ш               |          |           | $oxed{oxed}$ | Ш               | oxdot               | _        |  | 66       | $oxed{oxed}$    |          |                   |          |          | _        | _        | $\perp$       | 1   | L  | 116      | L.        | $ldsymbol{ldsymbol{ldsymbol{eta}}}$              | Ш            | <u> </u>     | _                                   | Ш          |          |          |          |
| L           | 17       | L         | oxdot    | Ш               |          | $\Box$    | L_           | Ш               |                     | _        | <u></u>  | 67       |                 |          |                   |          |          |          |          |               |     |  | 117      | <u> </u>  |  | L            | <u> </u>     |                                     |            |          |          |          |
|             |          | ¥         |          |                 |          |           |              |                 |                     |          | L  | 68       |                 |          |                   |          |          |          |          |               | _   |  | 118      |           |  |              |              |                                     |            |          |          |          |
|             | 19       |           |          |                 |          |           |              |                 |                     |          | L  | 69       |                 |          |                   |          |          |          |          |               | _   |  | 119      |           |  |              |              |                                     |            |          |          |          |
|             | 20       | <b>✓</b>  |          |                 |          |           |              |                 |                     |          |  | 70       |                 |          |                   |          |          |          |          |               | ]   |  | 120      |           |  |              |              |                                     |            |          |          |          |
|             | 21       | 1         |          |                 |          |           |              |                 |                     |          |  | 71       |                 |          |                   |          |          |          |          |               | ] . |  | 121      |           |  |              |              |                                     |            |          |          |          |
|             | 22       | П         | П        |                 |          |           |              | П               |                     |          |  | 72       |                 |          |                   |          |          |          | $\neg$   |               | 1   |  | 122      |           |  |              |              | Г                                   |            |          | $\neg$   |          |
|             | 23       | *         |          |                 |          |           |              | П               |                     |          |  | 73       |                 |          |                   |          |          |          |          |               | 1   |  | 123      |           |  |              |              |                                     |            | Î        | T        |          |
|             | 24       |           |          |                 |          |           |              | П               |                     | 7        |  | 74       |                 |          |                   |          |          |          | 一        |               | 1   |  | 124      |           |  |              |              |                                     | П          | T        |          |          |
|             | 25       | 7         | Т        |                 |          |           |              | П               |                     | 7        |  | 75       |                 |          | $\neg$            | $\neg$   | $\neg$   | ┪        | ヿ        |               | 1   |  | 125      |           |  |              |              |                                     |            |          |          |          |
|             | 26       | Ť         |          |                 |          |           |              | Н               |                     | ┑        |  | 76       | Г               |          |                   |          | $\dashv$ | 寸        | ┪        | $\dashv$      | 1   |  | 126      |           | $\vdash$   | $\vdash$     |              | _                                   |            | _        | 寸        |          |
|             | 27       | H         |          |                 |          |           | -            | Н               |                     | _        |  | 77       |                 |          | $\neg$            | $\neg$   | _        | 7        | ╗        |               | 1 ' | -  | 127      |           | $\vdash$   | $\vdash$     |              | $\vdash$                            | М          | _        | _        | $\neg$   |
|             | 28       | T         |          | П               |          |           | $\vdash$     | Н               | $\vdash$            | _        | -  | 78       |                 |          | $\neg$            |          |          | _        | 寸        | $\dashv$      | 1   |  | 128      |           | -  |              |              | _                                   |            |          |          |          |
|             | 29       | H         | ┢        |                 |          | $\dashv$  |              | Н               |                     | ┪        |  | 79       | _               | -        | _                 | $\neg$   | $\dashv$ | 7        | $\dashv$ | $\dashv$      | 1   | <del> </del>                                     | 129      | _         | $\vdash$   | <u> </u>     | _            | $\vdash$                            | Н          | _        | _        |          |
| <u> </u>    | 30       | Н         |          | Н               |          |           |              | H               | $\vdash$            | ┪        | <del>                                     </del> | 80       | Н               |          | $\neg$            | _        | $\dashv$ | $\dashv$ | $\dashv$ | +             | ┪   | <u> </u>   | 130      |           | <del>                                     </del> |              |              | $\vdash$                            | Н          | $\dashv$ | -+       | $\dashv$ |
| $\vdash$    | 31       | H         | ╁        |                 | $\vdash$ |           | _            | -               | $\vdash$            | ┥.       | <b></b>  | 81       | Н               |          | $\dashv$          | -        | $\dashv$ | ┪        | $\dashv$ |               | ┨   |  | 131      |           | $\vdash$   | Н            |              |                                     | Н          | -        | $\dashv$ |          |
| <u> </u>    | 32       | +         | $\vdash$ | Н               | $\dashv$ | $\vdash$  | Н            | $\vdash$        |                     | ⊢'       | $\vdash$   | 82       | ┝╼┥             | $\dashv$ | -                 | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | +             | ┨   |  | 132      | $\vdash$  | $\vdash$   | $\vdash$     | $\vdash$     | <del> </del>                        | Н          |          | -+       |          |
|             | 33       | Н         |          | Н               | -        | -         | Н            | H               |                     | $\dashv$ | -  | 83       | $\vdash$        |          |                   |          | +        | $\dashv$ | $\dashv$ | +             | ┨   | <del> </del>                                     | 133      |           | $\vdash$   | $\vdash$     | —            | $\vdash$                            | $\vdash$   | $\dashv$ | $\dashv$ |          |
| <u> </u>    | 34       | +         | $\vdash$ | Н               | $\dashv$ | $\vdash$  |              | $\vdash \dashv$ | $\dashv$            | -        | _  | 84       | $\vdash$        | $\dashv$ | $\dashv$          |          | -        | ╅        | -+       | +             | ┨   | -  | 134      |           |  | $\vdash$     | <u> </u>     | <u> </u>                            | Н          | -+       | ┥        | -        |
| <u> </u>    | 35       | H         | $\vdash$ | $\vdash$        | -        |           |              | Н               |                     | $\dashv$ | $\vdash$   | 85       | $\vdash$        | $\dashv$ |                   | $\dashv$ | $\dashv$ | -        |          |               | ┨   | $\vdash$   | 135      | $\vdash$  | $\vdash$   | $\vdash$     |              | <del> </del>                        | Н          | $\dashv$ | $\dashv$ | _        |
|             | 36       | ╫         |          | $\vdash$        | $\dashv$ | $\dashv$  | $\vdash$     | $\vdash$        | +                   | $\dashv$ | $\vdash$   | 86       | $\vdash$        | $\dashv$ | -                 |          | -+       | -        |          |               | ┨   |  | 136      | -         | $\vdash$   | -            |              |                                     | $\vdash$   | $\dashv$ | -        |          |
| <u> </u>    | 37       | H         | $\vdash$ | Н               |          | $\dashv$  | $\vdash$     | $\vdash$        | $\vdash$            | $\dashv$ | <del> </del>                                     | 87       | $\vdash$        | $\dashv$ | -                 |          |          | $\dashv$ | -+       | +             | -   | <b></b>  | 136      | _         | $\vdash$   | Н            | -            |                                     | Н          | $\dashv$ | $\dashv$ |          |
| <del></del> |          | H         | $\vdash$ | $\vdash$        | $\dashv$ | $\vdash$  |              | $\vdash \vdash$ | -                   | +        | $\vdash$   |          | Щ               | $\dashv$ | -                 |          | $\dashv$ | +        | -+       |               | 4   |  |          | _         | $\vdash$   | $\vdash$     | <u> </u>     | <u> </u>                            | Н          | -        |          |          |
| <u> </u>    | 38       | H         | $\vdash$ | $\vdash$        |          |           |              | $\vdash \vdash$ | $\vdash$            | -        | -  | 88       | <u> </u>        |          |                   | $\dashv$ | -        | $\dashv$ | -        | $\dashv$      | -   |  | 138      |           | <b>-</b>   | Н            | <u> </u>     | <u> </u>                            | Н          | $\dashv$ |          | 4        |
| <u> </u>    | 39       | H         | $\vdash$ | $\vdash$        |          | $\vdash$  | Щ            | $\vdash \vdash$ | +                   | -        | <u> </u>   | 89       | H               |          |                   | _        | -1       | $\dashv$ |          |               | -   | <b>├</b>   | 139      | <u> </u>  | $\vdash$   | Н            | H            | _                                   | $\vdash$   | $\dashv$ | -+       |          |
| <u> </u>    | 40       | 1         | Н        | $\vdash$        |          |           | Ш            | Н               | $\vdash \vdash$     | $\dashv$ |  | 90       | $\vdash \vdash$ |          | _                 |          | -        |          |          | +             | -   | <u> </u>   | 140      |           | H  | Ш            | <u> </u>     |                                     | Щ          | _        | -        | _        |
| <u> </u>    | 41       | 4         |          | $\dashv$        | _        | _         |              |                 |                     | 4        | <b></b>  | 91       | Ш               | _        | _                 | _        | _        | 4        |          |               | 4   | <u> </u>   | 141      | <u> </u>  | Щ  | Щ            |              | <u> </u>                            | $\sqcup$   |          | _        | 4        |
| <b></b>     | 42       | Ų.        | Н        | $\vdash \vdash$ |          |           | Щ            |                 | $\dashv$            | 4        | $\vdash$   | 92       |                 | .        | _                 | _        |          | 4        | 4        |               | 4   |  | 142      | <b>  </b> | L.,  | Ш            |              | Ш                                   | <b>  </b>  | _        | $\dashv$ | _        |
| <u> </u>    |          | ¥         | Н        | $\sqcup$        |          |           | Ш            | $\sqcup$        | $\dashv$            | 4        | $\vdash$   | 93       | Ш               |          |                   |          | $\dashv$ | _        | _        |               | 1   | $ldsymbol{ldsymbol{ldsymbol{eta}}}$              | 143      |           | Щ  |              | _            | oxdot                               | $\sqcup$   | _        | _        | _        |
| <u> </u>    | 44       | _         | Щ        | $\square$       | ļ        |           |              | Щ               |                     | _        | $\sqsubseteq$                                    | 94       | Ш               |          |                   |          | $\perp$  | 4        | _        | _             | 1   | <u> </u>   | 144      |           | Щ  | Ш            | $oxed{oxed}$ | _                                   | Ш          |          |          |          |
|             | 45       |           | Щ        | $\sqcup$        |          |           | Ш            |                 | $\perp$             | _        | $\vdash$   | 95       | Ш               |          |                   | _        | $\bot$   | 4        | _        |               | 1   |  | 145      |           |  |              |              |                                     | <u>_</u> i | _        |          |          |
| L           | 46       |           | Щ        |                 |          |           |              | Ш               |                     | _        |  | 96       | Ш               | _        | _                 | _        |          | _        | $\perp$  |               | 1   | <u> </u>   | 146      |           |  |              |              |                                     | $\Box$     | [        | $\perp$  |          |
|             | 47       |           | Ш        |                 |          |           |              | Ш               |                     | ╛        |  | 97       | $oxed{oxed}$    |          |                   | [        |          | [        | $\perp$  |               | 1   |  | 147      |           |  |              |              |                                     | Ш          |          |          |          |
|             | 48       | L         | Ш        | ]               |          |           |              | Ш               |                     | _        |  | 98       | ot              | [        | $oldsymbol{\bot}$ | [        |          |          |          |               | ]   |  | 148      |           |  |              |              |                                     |            | $\Box$   | $\Box$   |          |
|             | 49       |           |          |                 | _]       | ┚         |              |                 |                     | ╝        |  | 99       |                 | J        |                   |          |          | $\Box$   | $\Box$   |               | ]   |  | 149      |           |  |              |              |                                     |            | $\Box$   | T        |          |
|             | 50       |           |          |                 |          |           |              |                 | $\Box$              |          |  | 100      |                 | T        |                   | T        | T        | Т        | Т        |               |     | 1  | 150      |           |  |              |              |                                     |            |          | Т        |          |